

Wayne H.  
**BARRICK**

**BARRICK RESOURCES (USA), INC.**

March 16, 1994

Mr. Lowell P. Braxton  
Utah Department of Natural Resources  
Division of Oil, Gas, and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

Dear Mr. Braxton:

Subject: Annual Report of Mining Operations - 1993 #M/045/017

Attached please find the completed form MR-AR for mining operations conducted at the Mercur mine during 1993. Also submitted are the support documents and 400 scale mine disturbance map, as attachments to form MR-AR.

Please contact me at extension 335 should you have any questions concerning this submittal.

Respectfully,

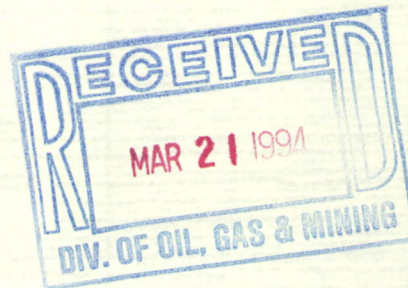
*David P. Beatty*

David P. Beatty  
Environmental/Occupational Health Coordinator

DPB

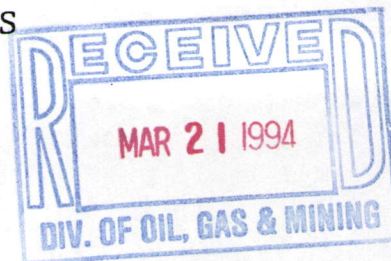
**Attachments**

cc: C. L. Landa  
G. M. Eurick  
T. B. Faddies  
M. P. Richardson  
R. R. Sacrison  
S. A. Wempen  
C. E. Clutter  
T. Shrier  
R. Johnson (Tooele County)





STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
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ANNUAL REPORT OF MINING OPERATIONS

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, as amended, and the General Rules as promulgated under the Utah Minerals Regulatory Program. An operator conducting mining operations under a Notice of Intention must file an annual operations and progress report (FORM MR-AR) with the Division.

I. General Information

1. Report Time Period: From (mo./yr.) 01/93 To (mo./yr.) 12/93
  2. DOGM File Number (Mine No): M/045 /017
  3. Mine Name: Mercur Mine
  4. Mineral(s) Mined (or permitted to mine): Gold
  5. Type of mine ☒ Surface Mine or ☐ Underground Mine
  6. Legal Description (Location of Lands Affected):  
1/4, 1/4, Section 6, 7, 8, Township 6S, Range 3W  
1/4, 1/4, Section 32, 33, Township 5S, Range 3W  
1/4, 1/4, Section , Township , Range
  7. Name of Operator or Company: Barrick Resources (USA), Inc.
  8. Permanent Street Address : P.O. Box 838  
City, State, Zip: Tooele, UT 84074  
Phone: (801) 268-4447
  9. Company Representative (or designated operator):  
Name: David P. Beatty  
Title: Environmental/Occupational Health Coordinator  
Business Address: P.O. Box 838  
City, State, Zip: Tooele, UT 84074  
Phone: (801) 268-4447
- ☐ Please check if any of the above information has changed since previous year.

II. Mining and Reclamation

1. Was the mine active during the past year? Yes ☒ No ☐
2. If active, how much ore or mineral was mined? Total Ore = 2,449,241 tons  
Total Waste = 9,379,770 tons

3. How much additional acreage was disturbed during the past year? 0
4. Briefly describe any new or additional surface disturbances that occurred during the past year. This description should include the type of work performed, and volume of material moved.

See Attached Reports: End 1993 Disturbance Summary

Topsoil Stockpile Activity 1986 through 1993

See Attached Map: End 1993 Mine Disturbance

5. How much acreage was reclaimed during the past year? 59.47
6. Briefly describe the reclamation work performed during the past year. This description should include methods employed, and an evaluation of the results.

See Attached Reports: 1993 Reclamation Summary

1993 Exploration Site Reclamation Summary

1993 Reclamation Seed Mixes Utilized

7. What is the total disturbed acreage at years end? 850.31
8. Briefly summarize any mining and/or reclamation plans for the upcoming year.

See Attached Reports: 1994 Scheduled Reclamation Activity

**NOTE:** Section III., "Additional Information" applies only to large mining operations.

### III. Additional Information

1. An updated surface facilities map should be attached if there have been significant changes since the previous map was submitted.
2. Any monitoring results or other reports that are required under the terms of the approved notice of intention should also be attached.

### IV. Signature Requirement

I hereby certify that the foregoing is true and correct.

Name (Typed or Print):

David P. Beatty

Title of Operator:

Environmental/Occ. Health Coordinator

Signature of Operator:

David P. Beatty

Date:

March 16, 1994

END 1993 DISTURBANCE SUMMARY  
(Per End 1993 Mine Disturbance Map; Attached)

DISTURBANCE AREA	END 1993 DISTURBED ACREAGE	INCREASE / DECREASE OVER 1992 DISTURBANCE
Dumps (Tops)	69.35 acres	Decreased 22.26 acres
Dumps (Faces)	192.20 acres	Decreased 0.40 acres
Roads (Access/Haulage)	147.51 acres	Increased 41.38 acres
Pits	231.11 acres	Decreased 0.59 acres
Topsoil (Stockpiles)	29.64 acres	Decreased 2.72 acres
Sediment Ponds	5.36 acres	Decreased 1.62 acres
Valley Leach (Surf./Dikes)	47.52 acres	Decreased 4.52 acres
Tailings (Pond/Dikes)	127.12 acres	Decreased 7.64 acres
Facilities/Ore Stockpiles	55.92 acres	Increased 2.62 acres
Reclaimed Areas	(55.42) acres	Increased (7.04) acres
END 1993 TOTAL DISTURBANCE	850.31 ACRES	DECREASED 2.79 ACRES

\* Total Permitted Disturbance = 1,718.98 acres

## TOPSOIL STOCKPILE ACTIVITY (1986 Thru 1993)

(All Values in Cubic Yards)

Topsoil Stockpile	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
T-1, T-5 Original	139,494	139,494 No Change	139,494 No Change	139,494 No Change	139,494 No Change	139,494 No Change	139,494 No Change	139,494 No Change		
T-6 Micro Strn.	21,630	21,630 No Change	21,630 No Change	14,691 -17,163 Manning +10,224 Under T6	14,691 No Change	14,691 No Change	14,691 No Change	14,691 No Change		
T-7 Res.Cryn.(E)	277,129	277,129 No Change	277,129 No Change	277,129 No Change	295,749 +14,448 DL #3 +4,172 LM Strp	295,749 No Change	295,749 No Change	295,749 No Change		
T-7(a) Res.Cryn.(W)	---	---	---	148,008 Created, DL #3 Strip For Const.	148,008 No Change	148,008 No Change	148,008 No Change	148,008 No Change		
T-8 Saddle Dam	29,207	30,903 +1,696 Tailings Strip For Const.	30,903 No Change	30,903 No Change	30,903 No Change	30,903 No Change	30,903 No Change	30,903 No Change		
T-9	25,360	45,301 +19,941 Tailings Strip + T10 Reloc.	45,301 No Change	45,301 No Change	45,301 No Change	0 Relocated to T18 August 1991	---	---		
T-10	9,509	0 Relocated To T9	---	---	---	---	---	---		
T-11	3,653	0 Unsalvagable	---	---	---	---	---	---		
T-12	9,179	39,445 +30,266 Tails Strip For Const.	39,445 No Change	39,445 No Change	0 Move To T13 August 1990	---	---	---		
T-13 Tails N.W.	---	24,502 Created, Tails Strip For Const.	49,293 +24,791 Tails Strip For Const.	49,293 No Change	104,258 +39,445 To T12 +15,520 TailStrp	104,258 No Change	104,258 No Change	104,258 No Change		
T-14	---	3,500 Created, DL #3 Strip For Const.	3,500 No Change	0 Moved To T15	---	---	---	---		
T-15 DL#3 (N)	---	---	---	107,195 Created, DL #3 Strip + T14 Move	107,195 No Change	107,195 No Change	107,195 No Change	107,195 No Change		
T-16	---	---	---	0 Never Created	---	---	---	---		
T-17	---	---	---	50,000 (est.) Created, Sac. Pit Area Strip	35,000 -15,000 Re-Est. Nov. 1990	35,000 No Change	0 -33,600 Applied To Sunrise Dump	---		
T-18 Tails (E)	---	---	---	---	0 Created Aug. '91 To Relocate T9	52,577 +47,257 From T9 +5,320 TailStrp	68,939 +16,362 Tailstrp	93,700 +24,761 Tails Strip		
T-19 J.L. Pit (E)	---	---	---	---	---	---	10,000 (est) J.L. Strip	20,444 +10,444 J.L.Strip		
T-20 L.M. Pit (E)	---	---	---	---	---	---	27,795 Created L.M.Strp	27,795 No Change		
T-21 L.M. Pit (N)	---	---	---	---	---	---	4,250 Created L.M. Strip	29,989 +27,863 L.M.Strip -520 C.S.Dumps -1,127 M.C.Runway -477 Upper L.F.		
T-22 L.M. Pit (W)	---	---	---	---	---	---	26,180 Created L.M.Strp	33,893 +7,713 L.M.Strip		
T-23 N.Merc Rnway	---	---	---	---	---	---	9,605 Created J.L.Strp	9,605 No Change		
T-24 Sac Haul Rd.	---	---	---	---	---	---	4,335 Move From T-21 Test, Screen 1"-	4,335 No Change		
T-25 N.Merc Lower	---	---	---	---	---	---	3,400 Created J.L.Strp	10,290 +6,890 J.L.Strip		
Totals	515,161	581,904	606,695	901,459	920,599	927,875	994,802	1,070,349		
Change	---	+66,743	+24,791	+294,764	+19,140	+7,276	+66,927	+75,547		

Mercur Mine

## 1993 Reclamation Summary

LOCATION	DATE	WORK COMPLETED	ACREAGE	SEED RATE (Ave lb/ac.)	SEED MIX (I.D. #)
Reservation Canyon	May 10, 1993	Hydromulch: Seed,	6.00	33.0	9449
Lower Ridge		Fertilizer, Fiber Mulch			
Manning Pond Area	May 11, 1993	Hydromulch: Seed,	4.00	33.0	9449
		Fertilizer, Fiber Mulch			
North Mercur Dumps	May 12, 1993	Hydromulch: Seed, Fert.	25.00	30.0	7220
(Lower Sacramento Dumps)	May 18, 1993	Alfalfa Pellet Mulch			
Snyder Dump Knob	May 19, 1993	Hydromulch: Seed,	5.00	33.0	9449
		Fertilizer, Fiber Mulch			
Ind.Solid Waste	Sep 29, 1993	Hydromulch: Seed,	4.00	30.0	9449
Capped Landfill		Fertilizer, Fiber Mulch			
Snyder Dump - Bio Solid	Nov 23, 1993	Hydromulch: Seed, Fert.	9.00	30.0	9449
Test Project		Bio Solids, Alfalfa Mulch			
Totals	Complete Nov 20, 1993	---	53.00	31.5	---

Total Seed = 1670 lbs.

Mercur Mine

## Exploration Site Reclamation

## 1993 Summary

					SEED RATE	SEED MIX
LOCATION	DOGM FILE #	DATE	WORK COMPLETED	ACREAGE	(lb./acre)	(I.D. #)
			Surface Plug 38 Holes			
Rover Hill	EXP/045/035	May/Aug 1993	(Nominal 5 ft. concrete	---	---	---
			Surface Plug)			
			Shaped & Scarified with			
Rover Hill	EXP/045/035	Nov 29, 1993	Trackhoe and Hand Seeded	1.00	20.0	9449
			1 site + 960 ft. roads			
			Surface Plug 10 Holes			
Sunshine Canyon Project	EXP/045/069	Aug 16, 1993	(Nominal 5 ft. concrete	---	---	---
(Violet Ray)			Surface Plug)			
			Shaped & Scarified with			
Sunshine Canyon Project	EXP/045/069	Nov 23, 1993	Trackhoe and Hand Seeded	5.47	30.0	9449
(Violet Ray)			7 Sites + 6500 ft. Roads			
		Completed	48 Drill Holes Plugged			
Totals	---	Oct. 1993	8 Sites + 7460 ft. Roads	6.47	30.0	---
			Reclaimed			

BARRICK MERCUR GOLD MINE  
1993 SEED MIX  
#7220  
#7418 (Modified)

<u>SPECIES</u>	<u>PERCENT OF MIX</u>
Thickspike Wheatgrass	15.0
Western Wheatgrass	15.0
Slender Wheatgrass	13.0
Basin Wildrye	8.0
Indian Ricegrass	5.0
Smooth Bromegrass	13.0
Russian Wildrye	10.0
Cicer Milkvetch	5.0
Lewis Blue Flax	6.5
Palmer Penstemon	3.0
Mountain Big Sage	1.5
Ladak Alfalfa	<u>5.0</u>
	100.0%



BARRICK MERCUR GOLD MINE  
1993 SEED MIX  
#9449

<u>SPECIES</u>	<u>PERCENT OF MIX</u>
Thickspike Wheatgrass	16.0
Western Wheatgrass	16.0
Bluebunch Wheatgrass	16.0
Russian Wildrye	5.0
Cicer Milkvetch	8.0
Lewis Blue Flax	8.0
Palmer Penstemon	5.0
Black Sagebrush	1.0
Ladak Alfalfa	8.0
Bottlebrush SquirrelTail	4.0
W.Stem Rubber Rabbitbrush	5.0
FourWing Saltbush	8.0
	100.0%

## Mercur Mine

## 1994 Scheduled Reclamation Activity

LOCATION	ESTIMATED RECL. DATE	WORK SCHEDULED	ACREAGE	SEED RATE (Ave lb/ac.)	SEED MIX (I.D. #)
[Exploration]EXP/001/063	May	Surface Plug (9) Holes	---	---	---
Golden Reef Project	1994				
[Exploration]EXP/001/063	May	Rip/Shape/Hand Seed	1.25	30.0	BLM spec.
Golden Reef Project	1994	2000 ft. Roads + 3 Pads	(est)		seed mix
Valley Fill Leach	Mar. - May	Complete subsoil cover	4.00	Topsoil & Seeding	---
Area #1 (Completion)	1994	and drainage structures		1999 (est.)	
7300 Elevation	May - Oct.	Contour Slope, Topsoil Cover(as required)	56.00	30.0	9449
Waste Rock Dumps	1994	Hydromulch, (seedlings?)			
Snyder Dumps	Apr. - May	Hydromulch With Bio-Solids Varying Rates	20.00	30.0	9449
Bio-Solid Test Plot	1994	Mulch, Fert., and Seed			
Topsoil Stockpiles, General Small Projects,	May & Oct.	Hydromulch: w/Fertilizer	10.00	30.0	9449
Re-Seeding Previous Work	1994	and Seed			
Totals	---	---	91.25	---	---